The Wisconsin Department of Public Instruction

Wisconsin's Longitudinal Data System
An Overview

What is a Longitudinal Data System?

- A longitudinal data system for education is one that
  - Collects and maintains detailed, high-quality student- and staff-level data
  - Links these data to one another across entities (collections or data warehouses) over time
  - Enables the data to be accessible through reporting and analysis tools

What is a Longitudinal Data System?

○ A longitudinal data system has many different layers and key components.

- Data warehouse storing student and school data from a variety of sources
- A unique student-level identifier
- Reporting tools (web-based)
  - Secured: MDAT
  - Public: WINSS, School Performance Report
- Security Applications
  - Access Manager
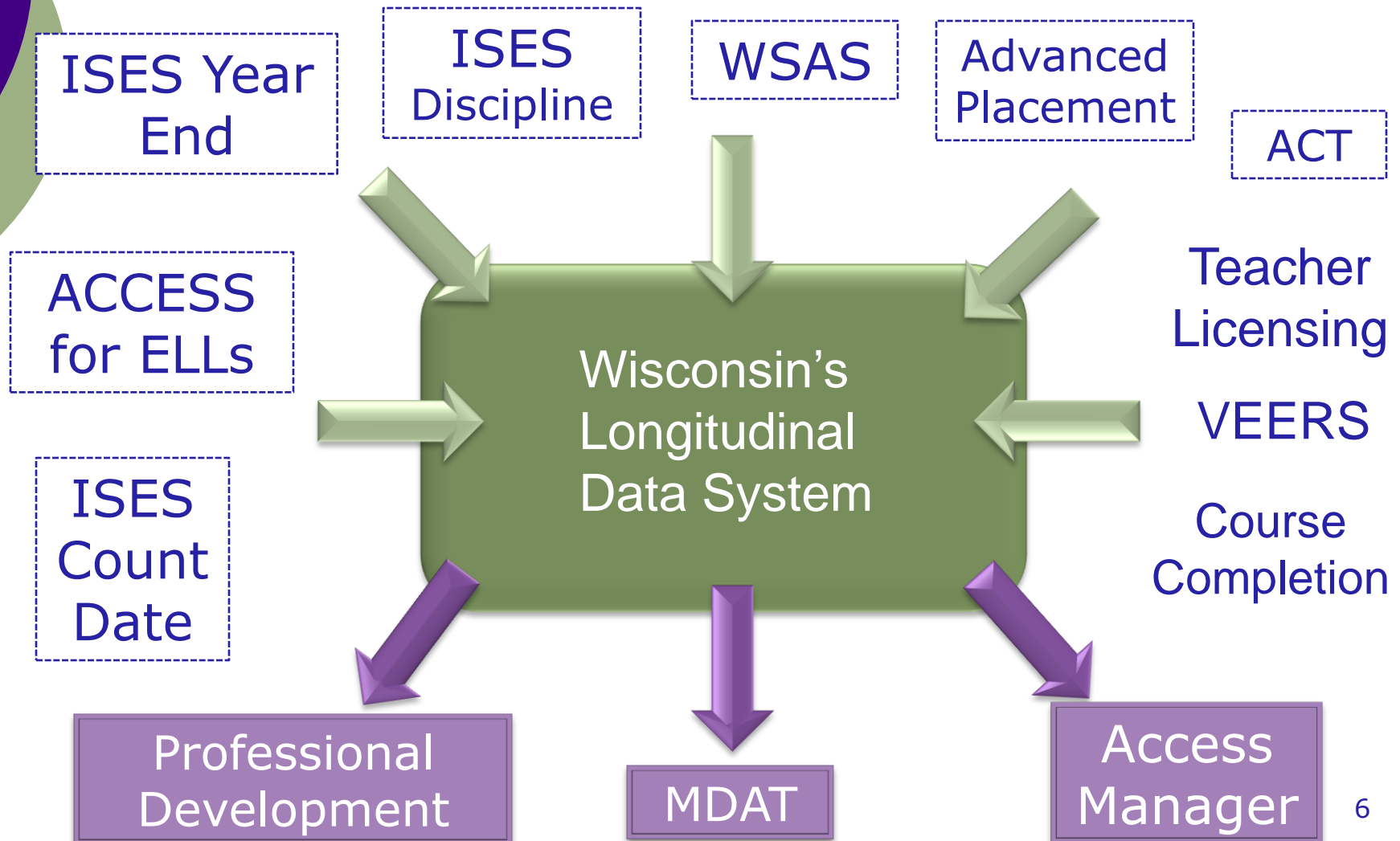- Professional Development

In Sum, a Longitudinal Data System…

○ Brings data together AT THE STUDENT – LEVEL for granular analysis and comparisons at multiple levels (to cohort, school, district, state)

○ Includes
- Data collections beyond test scores that create a more COMPLETE PICTURE of student performance
- Reporting and analysis tools that take advantage of longitudinal data with multiple measures and multiple years.
- Security Applications that ensure the data are secure and available only to appropriate personnel

Wisconsin's Longitudinal Data System

- Current key components of Wisconsin's LDS include:
  - A data warehouse storing student and school data
  - A security application
    - Access Manager
  - Secured Reporting Tools (web-based)
    - MDAT
  - Public Reporting
    - WINSS
    - School District Performance Reports
  - Professional Development

Wisconsin's Longitudinal Data System

ISES Year End

ISES Discipline

WSAS

Advanced Placement

ACT

ACCESS for ELLs

Wisconsin's Longitudinal Data System

Teacher Licensing

VEERS

ISES Count Date

Course Completion

Professional Development

MDAT

Access Manager

MDAT: Overview

○ MDAT is the new, flexible, web-based application tool that allows authorized users to…

- Select variables and filters to answer questions of their choice.

- Access specific data and variables based on their User Role.

- Use charts and graphs to analyze school and student progress over time.

MDAT Data

- Data Sources:
  - WKCE scores from WKCE results
  - Other data from WSAS and/or ISES
    - Count Date
    - Year End
    - Discipline Collection
- Application uses three years of WKCE data
  - Shows longitudinal cohort growth from one school year to the following school year.
  - Example: change from 2007-2008 school year (November test) to 2008-2009 school year (November test)

LDS Access Manager:
A Security Solution

- MDAT allows school district officials identified by their school board as having a legitimate educational need to drill down to confidential student-level information
- Federal and Wisconsin laws protect student privacy
  - Wisconsin Statute 118.125
  - Family Educational Rights and Privacy Act (FERPA—34 CFR Part 99)
  - Privacy and Wisconsin's Longitudinal Data System
- DPI's solution to safeguard confidential data: a security tool, or Access Manager

LDS Access Manager: Overview

- Access Manager is a tool of the LDS, one that manages...
  - Who can control access to the applications
  - Who has access to certain applications
  - What a user can see/do within an application (roles)
    - Which groups of student data the user can access

Looking Ahead

○ In the future, the LDS will include:

- Course completion data (collection)
- Post-secondary data
- Growth reports and/or reporting tools
- Enhancements to MDAT
- VEERS data

For help, more information…

○ Email
  • ldshelp@dpi.wi.gov

○ DPI LDS Website
  • http://dpi.wi.gov/lds/index.html

○ To find out more information about the tools available visit this page:
  • http://dpi.wi.gov/lds/ldstools.html

○ To find out more information on our current grant visit this page:
  • http://dpi.wi.gov/lds/wildsgrant2.html